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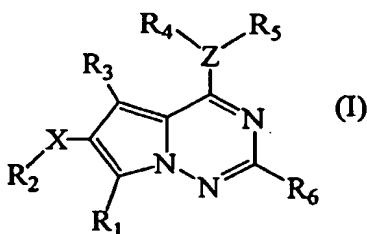
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(54) Title: METHODS OF TREATING p38 KINASE-ASSOCIATED CONDITIONS AND PYRROLOTRIAZINE COMPOUNDS USEFUL AS KINASE INHIBITORS



(57) Abstract: Methods of treating one or more conditions associated with p38 kinase activity are disclosed comprising administering to a patient in need thereof at least one compound having the formula (I): or a pharmaceutically acceptable salt, prodrug, or solvate thereof, wherein R<sub>3</sub> is hydrogen, methyl, perfluoromethyl, methoxy, halogen, cyano, or NH<sub>2</sub>, preferably methyl, and X, R<sub>1</sub> through R<sub>6</sub>, and Z are as described in the specification. Advantageously the groups ZR<sub>4</sub>R<sub>5</sub> taken together comprise an NH-substituted aryl.

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 01/49982

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D487/04 C07D519/00 A61K31/53 A61P29/00  
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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 713 876 A (WAKAMOTO PHARMA CO LTD) 29 May 1996 (1996-05-29) claims 1,10	7,28,31
A	WO 99 24033 A (SHIONOGI & CO) 20 May 1999 (1999-05-20) page 3, paragraph 1 - paragraph 4; claim 1	7,28,31
P,X	WO 00 71129 A (SQUIBB BRISTOL MYERS CO) 30 November 2000 (2000-11-30) claims 1,3; examples 33,36,37,53,54,63,93	7,28



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

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\*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*A\* document member of the same patent family

Date of the actual completion of the international search

12 November 2002

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## INTERNATIONAL SEARCH REPORT

International application No.   
PCT/US 01/49982

### Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 1-6, 30 and 31 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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